What is claimed is:

1. A composition comprising a fraction isolated or derived from hops and a methylxanthine.

- 2. The composition of claim 1, wherein the fraction isolated or derived from hops is selected from the group consisting of alpha acids, isoalpha acids, reduced isoalpha acids, tetra-hydroisoalpha acids, hexa-hydroisoalpha acids, beta acids, and spent hops.
- 3. The composition of claim 1, wherein the fraction isolated or derived from hops comprises a compound of a supragenus having the formula:

wherein R' is selected from the group consisting of carbonyl, hydroxyl, OR, and OCOR, wherein R is alkyl;

wherein R" is selected from the group consisting of CH(CH₃)₂, CH₂CH(CH₃)₂, and CH(CH₃)CH₂CH₃;

and wherein R, T, X, and Z are independently selected from the group consisting of H, F, Cl, Br, I, and π orbital, with the proviso that if one of R, T, X, or Z is a π orbital, then the adjacent R, T, X, or Z is also a π orbital, thereby forming a double bond.

4. The composition of claim 1, wherein said fraction isolated or derived from hops comprises a compound of Genus A having the formula:

wherein R' is selected from the group consisting of carbonyl, hydroxyl, OR, and OCOR, wherein R is alkyl;

and wherein R" is selected from the group consisting of CH(CH₃)₂, CH₂CH(CH₃)₂, and CH(CH₃)CH₂CH₃.

5. The composition of claim 1, wherein the fraction isolated or derived from hops comprises a compound of Genus B having the formula:

wherein R' is selected from the group consisting of carbonyl, hydroxyl, OR, and OCOR, wherein R is alkyl;

and wherein R" is selected from the group consisting of CH(CH₃)₂, CH₂CH(CH₃)₂, and CH(CH₃)CH₂CH₃.

6. The composition of claim 1, wherein said fraction isolated or derived from hops comprises a compound selected from the group consisting of humulone, cohumulone, adhumulone, isohumulone, isocohumulone, isoadhumulone, dihydro-isohumulone, dihydro-isohumulone, dihydro-adhumulone, tetrahydro-isohumulone, tetrahydro-isohumulone, tetrahydro-isohumulone, hexahydro-isohumulone, hexahydro-isohumulone, and hexahydro-adhumulone.

7. The composition of claim 1, wherein said methylxanthine is selected from caffeine; theobromine; theophylline; aminophylline; doxofylline; pentoxifylline; 8-oxopentoxifylline; 8-oxolisofylline; lisofylline; 1-proparagyl 3,7-dimethyl xanthine; 7-proparagyl 1,3-dimethyl xanthine; 3-proparagyl 1,7-dimethyl xanthine; 1,3,7-triproparagyl xanthine; 3-isobutyl-1-methylxanthine (IBMX); 1,3,7-tripropyl xanthine; 7-benzyl-IBMX; 1-propyl 3,7-dimethyl xanthine; 1,3-dipropyl 7-methyl xanthine; 1,3-dipropyl 7-proparagyl xanthine; 3,7-dimethyl 1-propyl xanthine; and 7-allyl 1,3-dimethyl xanthine.

- 8. The composition of claim 1, wherein the fraction isolated or derived from hops and methylxanthine are in a ratio of about 100:1 to about 1:100.
- 9. The composition of claim 8, wherein the fraction isolated or derived from hops is reduced isoalpha acid and the methylxanthine is caffeine.
- 10. The composition of claim 1, wherein the composition comprises about 0.5 to 10000 mg of said fraction isolated or derived from hops.
- 11. The composition of claim 10, wherein the composition comprises about 50 to 7500 mg of the fraction isolated or derived from hops.
- 12. The composition of claim 1, wherein the composition comprises about 0.001 to 10 weight percent of the fraction isolated or derived from hops.
- 13. The composition of claim 12, wherein the composition comprises about 0.1 to 1 weight percent of the fraction isolated or derived from hops.
- 14. The composition of claim 1, wherein the composition further comprises a pharmaceutically acceptable carrier.
- 15. The composition of claim 1, wherein the composition is formulated for administration orally, topically, parenterally, or rectally.
- 16. A composition comprising a fraction derived from hops and a curcuminoid.

17. The composition of claim 16, wherein the fraction derived from hops is selected from isoalpha acids, reduced isoalpha acids, tetra-hydroisoalpha acids, hexa-hydroisoalpha acids, and beta acids.

18. The composition of claim 16, wherein the fraction derived from hops comprises a compound of a supragenus having the formula:

wherein R' is selected from the group consisting of carbonyl, hydroxyl, OR, and OCOR, wherein R is alkyl;

wherein R" is selected from the group consisting of CH(CH₃)₂, CH₂CH(CH₃)₂, and CH(CH₃)CH₂CH₃;

and wherein R, T, X, and Z are independently selected from the group consisting of H, F, Cl, Br, I, and π orbital, with the proviso that if one of R, T, X, or Z is a π orbital, then the adjacent R, T, X, or Z is also a π orbital, thereby forming a double bond.

19. The composition of claim 16, wherein said fraction derived from hops comprises a compound of Genus A having the formula:

wherein R' is selected from the group consisting of carbonyl, hydroxyl, OR, and OCOR, wherein R is alkyl;

and wherein R" is selected from the group consisting of CH(CH₃)₂, CH₂CH(CH₃)₂, and CH(CH₃)CH₂CH₃.

20. The composition of claim 16, wherein the fraction derived from hops comprises a compound of Genus B having the formula:

wherein R' is selected from the group consisting of carbonyl, hydroxyl, OR, and OCOR, wherein R is alkyl;

and wherein R" is selected from the group consisting of CH(CH₃)₂, CH₂CH(CH₃)₂, and CH(CH₃)CH₂CH₃.

21. The composition of claim 16, wherein said fraction derived from hops comprises a compound selected from the group consisting of isohumulone, isocohumulone, isocohumulone, isoadhumulone, dihydro-isohumulone, dihydro-isocohumulone, dihydro-adhumulone, tetrahydro-isohumulone, tetrahydro-adhumulone, hexahydro-isohumulone, and hexahydro-adhumulone.

22. The composition of claim 16, wherein said curcuminoid is selected from curcumin, demethoxycurcumin, bisdemethoxycurcumin, cis-trans-curcumin and cyclocurcumin.

- 23. The composition of claim 16, wherein the fraction derived from hops and the curcuminoid are in a ratio of about 100:1 to about 1:10.
- 24. The composition of claim 23, wherein the ratio is about 3:2.
- 25. The composition of claim 24, wherein the fraction isolated from hops is reduced isoalpha acid and the curcuminoid is curcumin.
- 26. The composition of claim 16, wherein the composition comprises about 0.5 to 10000 mg of said fraction isolated or derived from hops.
- 27. The composition of claim 26, wherein the composition comprises about 50 to 7500 mg of the fraction isolated or derived from hops.
- 28. The composition of claim 16, wherein the composition comprises about 0.001 to 10 weight percent of the fraction isolated or derived from hops.
- 29. The composition of claim 28, wherein the composition comprises about 0.1 to 1 weight percent of the fraction isolated or derived from hops.
- 30. The composition of claim 16, wherein the composition further comprises a pharmaceutically acceptable carrier.
- 31. The composition of claim 16, wherein the composition is formulated for administration orally, topically, parenterally, or rectally.
- 32. A method of reducing inflammation, comprising administering a composition of any of claims 1-31.